NOTIFICATION

(LAW DEPARTMENT).

No LAW 16 LCR 62, dated Bangalore the 17th October 1962

Ordered that the accompanying Notification No G S.R. 1228, dated the 22nd August 1962, of the Ministry of Works, Housing and Supply (Central Boilers Board), amending the Indian Boiler Regulations, 1950 which has been published in the *Gazette of India*, Part II, Section 3, sub-section (i), dated the 15th September 1962, be republished in the *Mysore Gazette*, for general information.

By Order and in the name of the Governor of Mysore,

S SRIPADARAJ,
135 *Under Secy to Govt., L. D.*

GOVERNMENT OF INDIA

MINISTRY OF WORKS, HOUSING AND SUPPLY.

(Central Boilers Board)

New Delhi, the 22nd August 1962

G S R. 1228—In exercise of the powers conferred by section 28 of the Indian Boilers Act, 1923 (5 of 1923), the Central Boilers Board hereby makes the following regulations further to amend the Indian Boiler Regulations, 1950, the same having been previously published as required by sub-section (1) of section 31 of the said Act, namely —

1. These Regulations may be called the Indian Boiler (Seventeenth Amendment) Regulations, 1962

2 In the Indian Boiler Regulations, 1950,—

(i) in regulation 2, for clause (c), the following clause shall be substituted, namely —

"'"Boiler" means any closed vessel exceeding 22 75 litres (five gallons) in capacity which is used expressly for generating steam under pressure and includes any mounting or other fitting attached to such vessel, which is wholly or partly under pressure when steam is shut off",

(ii) after Chapter-XIV, the following chapter shall be inserted, namely —

CHAPTER XV.

Heat, Exchangers, Converters, Evaporators and Similar Vessels.

623 Application.—These regulations shall apply to heat exchangers, converters, evaporators and similar vessels using steam under pressure as heating medium

624. Construction and workmanship —These shall conform to the requirements of relevant regulations governing the particular type of construction

625 General requirements —Where applicable the general requirements of Chapter I shall apply.

626 Materials —Materials used in the construction of these vessels shall comply with the appropriate regulations in Chapter II or XI Cast iron shall however be not used beyond service temperatures and pressures of 218°C (425°F) and 11 25 kg/cm^2 (160 lbs per sq inch) respectively

627. Electrodes —The electrodes used shall be of appropriate quality, suitable for the material of the part to be welded approved by the Inspecting Authority The tensile strength of the weld material shall not be less than the lower limit specified for the part

628 Plan and stay tubes —The tubes shall comply with the appropriate regulations in Chapter II

629. Heat treatment.—All fusion welded vessels shall be heat treated for stress relief in accordance with regulation 267 In the case of alloy steel vessels, the maximum temperature and the soaking period may be varied according to the requirements of the material with the approval of the Inspecting Authority

630 (*a*) Determination of working pressure of vessels of *riveted construction*—These shall comply with the relevant provisions of Chapter IV

(*b*) Determination of working pressure of vessels of *welded construction* —

(i) Shells—The working pressure shall be calculated in accordance with equation 72

(ii) Dished end plates—The maximum working pressure of dished end plates subject to pressure on the concave side shall be determined by equation 74.

(iii) Flat end plates—The maximum working pressure of flat end plates shall be determined by appropriate regulations in Chapter III.

(c) Determination of working pressure of cast iron *vessels* —

(i) Shells—The working pressure shall be calculated in accordance with equation 76 where—

C=20 per cent of the tensile strength of the grade of iron used, and X=0 5 cm (0 2 in)

(ii) Dished end plates—The working pressure for dished end plates, subject to pressure on the concave side shall be determined by equation 74, where—

f=10 per cent of the tensile strength of the grade of iron used and the corrosion factor "C" shall be 0 5 cm (0 2 in)

(iii) Flat end plates—The maximum working pressure of flat end plates shall be determined by equation 35, where—

C=90 per cent of the tensile strength of the grade of iron used and C1=0 5 cm (0 2 in)

(d) Bolts and studs—Bolts and studs connecting parts of the vessel such as shell, end plates, tube plates, etc , shall be made of steel.

The maximum working pressure for the bolts or studs shall be calculated by equation 45.

631. Tubes.—In the case of tubes subjected simultaneously to both internal and external pressure, the working pressure of the tubes and determined by equation 87, shall not be less than the difference of the two pressures In no case however, shall the thickness of tube be less than 2 3 mm (0·09″).

632. Dished end plates —The shape of dished end plates shall be in conformity with the requirements of regulation 875.

633. End plate attachments.—These shall comply with any one of the forms prescribed in Chapters X or XII

634 Tube plates —The minimum thickness of tube plates shall comply with the requirements of regulation 580

635 Stand pipes, nozzles, pads and seatings for mounting and their attachments —These shall comply with the relevant regulations

[No S&PII/BL-20 (17)/57]

S N SEN GUPTA, Secy.